ELSEVIER

Comput. Methods Appl. Mech. Engrg. 119 (1994) 397–398

Computer methods in applied mechanics and engineering

# Author index of Volume 119

Aikawa, Y., see Kamiya, N. 311–324
Akay, H.U., see Chien, Y.P. 17– 33
Aliabadi, S.K., see Tezduyar, T.E. 157–177
Argyris, J. and L. Tenek, A practicable and locking-free laminated shallow shell triangular element of varying and adaptable curvature 215–282

Behr, M., see Kennedy, J.G. 95–111
Behr, M., see Tezduyar, T.E. 157–177
Belytschko, T., H.-Y. Chiang and E. Plaskacz, High resolution two-dimensional shear band computations: imperfections and mesh dependence 1– 15
Bermúdez, A. and R. Rodríguez, Finite element computation of the vibration modes of a fluid–solid system 355–370
Blech, R.A., see Chien, Y.P. 17– 33

Carpenter, F., see Chien, Y.P. 17– 33
Chiang, H.-Y., see Belytschko, T. 1– 15
Chien, Y.P., A. Ecer, H.U. Akay, F. Carpenter and R.A. Blech, Dynamic load balancing on a network of workstations for solving computational fluid dynamics problems 17– 33

deCougny, H.L., see Özturan, C. 123–137
Derby, J.J., see Salinger, A.G. 139–156

Ecer, A., see Chien, Y.P. 17– 33
El Jai, A., P. Labat and M. Polit, A program for analyzing distributed parameter systems via sensors and actuators 181–189

Farhat, C. and S. Lanteri, Simulation of compressible viscous flows on a variety of MPPs: computational algorithms for unstructured dynamic meshes and performance results 35– 60
Flaherty, J.E., see Özturan, C. 123–137

Ganendra, D., see Potts, D.M. 341–354
Givoli, D. and J.B. Keller, Special finite elements for use with high-order boundary conditions 199–213

Heinrichs, W., Defect correction for the advection–diffusion equation 191–197
Hughes, T.J.R., see Johan, Z. 61– 72

Ibrahimbegović, A., Finite elastoplastic deformations of space-curved membranes 371–394

Johan, Z., K.K. Mathur, S.L. Johnsson and T.J.R. Hughes, Scalability of finite element applications on distributed memory parallel computers 61– 72

Johnson, A.A. and T.E. Tezduyar, Mesh update strategies in parallel finite element computations of flow problems with moving boundaries and interfaces 73– 94
Johnsson, S.L., see Johan, Z. 61– 72

Kalro, V., see Kennedy, J.G. 95–111
Kamiya, N., Y. Aikawa and K. Kawaguchi, An adaptive boundary element scheme for steady thermoelastostatic analysis 311–324
Kawaguchi, K., see Kamiya, N. 311–324
Keller, J.B., see Givoli, D. 199–213
Kennedy, J.G., M. Behr, V. Kalro and T.E. Tezduyar, Implementation of implicit finite element methods for incompressible flows on the CM-5 95–111
Kimsey, K.D. and M.A. Olson, Parallel computation of impact dynamics 113–121

Labat, P., see El Jai, A. 181–189
Lanteri, S., see Farhat, C. 35– 60

Mathur, K.K., A. Needleman and V. Tvergaard, Ductile failure analyses on massively parallel computers 283–309
Mathur, K.K., see Johan, Z. 61– 72
Mittal, S., see Tezduyar, T.E. 157–177

Needleman, A., see Mathur, K.K. 283–309

Olson, M.A., see Kimsey, K.D. 113–121
Özturan, C., H.L. deCougny, M.S. Shephard and J.E. Flaherty, Parallel adaptive mesh refinement and redistribution on distributed memory computers 123–137

Plaskacz, E., see Belytschko, T. 1– 15
Polit, M., see El Jai, A. 181–189
Potts, D.M. and D. Ganendra, An evaluation of substepping and implicit stress point algorithms 341–354

Rodríguez, R. see Bermúdez, A. 355–370

Salinger, A.G., Q. Xiao, Y. Zhou and J.J. Derby, Massively parallel finite element computations of three-dimensional, time-dependent, incompressible flows in materials processing systems 139–156
Shephard, M.S., see Özturan, C. 123–137
Sze, K.Y., Stabilization schemes for 12-node to 21-node brick elements based on orthogonal and consistently assumed stress modes 325–340

Tenek, L., see Argyris, J. 215–282
Tezduyar, T.E., S.K. Aliabadi, M. Behr and S. Mittal, Massively parallel finite element simulation of compressible and incompressible flows 157–177
Tezduyar, T.E., see Johnson, A.A. 73– 94
Tezduyar, T.E., see Kennedy, J.G. 95–111
Tvergaard, V., see Mathur, K.K. 283–309

Xiao, Q., see Salinger, A.G. 139–156

Zhou, Y., see Salinger, A.G. 139–156

ELSEVIER

Comput. Methods Appl. Mech. Engrg. 119 (1994) 399–401

Computer methods in applied mechanics and engineering

# Subject index of Volume 119

*Boundary element methods*
An adaptive boundary element scheme for steady thermoelastostatic analysis, N. Kamiya, Y. Aikawa and K. Kawaguchi 311–324

*Coupled problems*
Finite element computation of the vibration modes of a fluid–solid system, A. Bermúdez and R. Rodríguez 355–370

*Design of programs*
A program for analyzing distributed parameter systems via sensors and actuators, A. El Jai, P. Labat and M. Polit 181–189

*Elasticity*
A practicable and locking-free laminated shallow shell triangular element of varying and adaptable curvature, J. Argyris and L. Tenek 215–282
An adaptive boundary element scheme for steady thermoelastostatic analysis, N. Kamiya, Y. Aikawa and K. Kawaguchi 311–324
Finite elastoplastic deformations of space-curved membranes, A. Ibrahimbegović 371–394
Finite element computation of the vibration modes of a fluid–solid system, A. Bermúdez and R. Rodríguez 355–370
Stabilization schemes for 12-node to 21-node brick elements based on orthogonal and consistently assumed stress modes, K.Y. Sze 325–340

*Finite element and matrix methods*
A practicable and locking-free laminated shallow shell triangular element of varying and adaptable curvature, J. Argyris and L. Tenek 215–282
An evaluation of substepping and implicit stress point algorithms, D.M. Potts and D. Ganendra 341–354
Ductile failure analyses on massively parallel computers, K.K. Mathur, A. Needleman and V. Tvergaard 283–309
Dynamic load balancing on a network of workstations for solving computational fluid dynamics problems, Y.P. Chien, A. Ecer, H.U. Akay, F. Carpenter and R.A. Blech 17– 33
Finite elastoplastic deformations of space-curved membranes, A. Ibrahimbegović 371–394
Finite element computation of the vibration modes of a fluid–solid system, A. Bermúdez and R. Rodríguez 355–370
High resolution two-dimensional shear band computations: imperfections and mesh dependence, T. Belytschko, H.Y. Chiang and E. Plaskacz 1– 15
Implementation of implicit finite element methods for incompressible flows on the CM-5, J.G. Kennedy, M. Behr, V. Kalro and T.E. Tezduyar 95–111
Massively parallel finite element computations of three-dimensional, time-dependent, incompressible flows in materials processing systems, A.G. Salinger, Q. Xiao, Y. Zhou and J.J. Derby 139–156

Massively parallel finite element simulation of compressible and incompressible flows, T.E. Tezduyar, S.K. Aliabadi, M. Behr and S. Mittal 157–177
Mesh update strategies in parallel finite element computations of flow problems with moving boundaries and interfaces, A.A. Johnson and T.E. Tezduyar 73– 94
Parallel adaptive mesh refinement and redistribution on distributed memory computers, C. Özturan, H.L. deCougny, M.S. Shephard and J.E. Flaherty 123–137
Parallel computation of impact dynamics, K.D. Kimsey and M.A. Olson 113–121
Scalability of finite element applications on distributed memory parallel computers, Z. Johan, K.K. Mathur, S.L. Johnsson and T.J.R. Hughes 61– 72
Simulation of compressible viscous flows on a variety of MPPs: computational algorithms for unstructured dynamic meshes and performance results, C. Farhat and S. Lanteri 35– 60
Special finite elements for use with high-order boundary conditions, D. Givoli and J.B. Keller 199–213
Stabilization schemes for 12-node to 21-node brick elements based on orthogonal and consistently assumed stress modes, K.Y. Sze 325–340

*Fluid mechanics*
Dynamic load balancing on a network of workstations for solving computational fluid dynamics problems, Y.P. Chien, A. Ecer, H.U. Akay, F. Carpenter and R.A. Blech 17– 33
Finite element computation of the vibration modes of a fluid–solid system, A. Bermúdez and R. Rodríguez 355–370
High resolution two-dimensional shear band computations: imperfections and mesh dependence, T. Belytschko, H.Y. Chiang and E. Plaskacz 1– 15
Implementation of implicit finite element methods for incompressible flows on the CM-5, J.G. Kennedy, M. Behr, V. Kalro and T.E. Tezduyar 95–111
Massively parallel finite element computations of three-dimensional, time-dependent, incompressible flows in materials processing systems, A.G. Salinger, Q. Xiao, Y. Zhou and J.J. Derby 139–156
Massively parallel finite element simulation of compressible and incompressible flows, T.E. Tezduyar, S.K. Aliabadi, M. Behr and S. Mittal 157–177
Mesh update strategies in parallel finite element computations of flow problems with moving boundaries and interfaces, A.A. Johnson and T.E. Tezduyar 73– 94
Parallel adaptive mesh refinement and redistribution on distributed memory computers, C. Özturan, H.L. deCougny, M.S. Shephard and J.E. Flaherty 123–137
Parallel computation of impact dynamics, K.D. Kimsey and M.A. Olson 113–121
Scalability of finite element applications on distributed memory parallel computers, Z. Johan, K.K. Mathur, S.L. Johnsson and T.J.R. Hughes 61– 72
Simulation of compressible viscous flows on a variety of MPPs: computational algorithms for unstructured dynamic meshes and performance results, C. Farhat and S. Lanteri 35– 60

*Gas dynamics*
Ductile failure analyses on massively parallel computers, K.K. Mathur, A. Needleman and V. Tvergaard 283–309

*Matrix calculus*
A practicable and locking-free laminated shallow shell triangular element of varying and adaptable curvature, J. Argyris and L. Tenek 215–282

*Nonlinear dynamics of systems*
A practicable and locking-free laminated shallow shell triangular element of varying and adaptable curvature, J. Argyris and L. Tenek 215–282

*Nonlinear mechanics*
An evaluation of substepping and implicit stress point algorithms, D.M. Potts and D. Ganendra 341–354

*Numerical solution procedures*
An evaluation of substepping and implicit stress point algorithms, D.M. Potts and D. Ganendra 341–354
Defect correction for the advection–diffusion equation, W. Heinrichs 191–197
Special finite elements for use with high-order boundary conditions, D. Givoli and J.B. Keller 199–213
Stabilization schemes for 12-node to 21-node brick elements based on orthogonal and consistently assumed stress modes, K.Y. Sze 325–340

*Plasticity*
An evaluation of substepping and implicit stress point algorithms, D.M. Potts and D. Ganendra 341–354
Ductile failure analyses on massively parallel computers, K.K. Mathur, A. Needleman and V. Tvergaard 283–309
Finite elastoplastic deformations of space-curved membranes, A. Ibrahimbegović 371–394

*Shells and plates*
A practicable and locking-free laminated shallow shell triangular element of varying and adaptable curvature, J. Argyris and L. Tenek 215–282
Finite elastoplastic deformations of space-curved membranes, A. Ibrahimbegović 371–394

*Solutions of ordinary and partial differential equations*
A program for analyzing distributed parameter systems via sensors and actuators, A. El Jai, P. Labat and M. Polit 181–189
Defect correction for the advection–diffusion equation, W. Heinrichs 191–197

*Structural mechanics*
A practicable and locking-free laminated shallow shell triangular element of varying and adaptable curvature, J. Argyris and L. Tenek 215–282
An evaluation of substepping and implicit stress point algorithms, D.M. Potts and D. Ganendra 341–354
Finite element computation of the vibration modes of a fluid–solid system, A. Bermúdez and R. Rodríguez 355–370

*Thermal effects and thermodynamics*
An adaptive boundary element scheme for steady thermoelastostatic analysis, N. Kamiya, Y. Aikawa and K. Kawaguchi 311–324